# BRUHAT BANGALORE MAHANAGARA PALIKE
## YELAHANKA ZONE

**Estimate Cost Rs.** **4995000.00**

**Name of Work:** Detailed Estimate for the Work of Providing Fixing new Motor pump, PVC Cable, new Pannel Board, MS Box, and other nessarry accessory to Existing Borewell at Vidyasagara Surrounding areas in Ward No. 06, Byatarayanapura Sub Division.

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000 HP 25 stage (P.NO-XXXXII, I.NO-33, PWD SR 16-17) For Additional Motor 12.5 HP 25 Stage | No | | | | | | | |
| | 7.5 HP 16 stage (P.NO-XXXX, I.NO-17, PWD SR 16-17) | | 1 | | | | **1** | 45800.00 | **45800.00** |
| | | | | Deleted | | | | | |
| 2 | 10HP 20 stage (P.NO-XXXX, I.NO-21, PWD SR 16-17) | | 1 | | | | **1** | 50100.00 | **50100.00** |
| | | | | | | | | | |
| 3 | 12.5HP 25 Stage (P.NO-XXXX, I.NO-24, PWD SR 16-17) | | 2 | | | | **2** | 60400.00 | **120800.00** |
| | | | | | | | | | |
| 4 | 15 HP 30 Stage (P.NO-XXXXI, I.NO-33, PWD SR 16-17) | | 3 | | | | **3** | 70600.00 | **211800.00** |
| | | | | | | | | | |
| 5 | 20HP 30 stage (P.NO-XXXXI, I.NO-37, PWD SR 16-17) | | 3 | | | | **3** | 79100.00 | **237300.00** |
| | | | | | | | | | |
| 6 | Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)b 50mm dia GI pipe (SR 13-14 PWD, P.No.XVII Sl.no. 509) | Rmtr | | | | | | 321.00 | 577800 |
| | | | 1 | 1800.00 | | | **1800.00** | 340.26 | **612468.00** |
| | | | | | | | | | |
| | Basic Rate | 321.00 | | | | | | | |
| | 6% area weightage | 19.26 | | | | | | | |
| | **Total** | **340.26** | | | | | | | |
| 7 | Providing & fixing heavy duty collar (P.NO-III, I.NO-86, PRED 12-13 SR) | | 1 | 295.00 | | | **295.00** | 150.00 159.00 | 44250 **46905.00** |
| | | | | | | | | | |
| | Basic Rate | 150.00 | | | | | | | |
| | 6% area weightage | 9.00 | | | | | | | |
| | **Total** | **159.00** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 8 | Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia (P.NO-535, I.NO-30 (c), BWSSB | Mtr | | | | | | | |
| | | | 1 | 3000.00 | | | **3000.00** | 188.70 | **566100.00** |
| 9 | Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **12.5HP to 15 HP Star Delta Starter SERDED Rate** | No. | | | | | | | |
| | | | 30 | | | | **30.00** | 11000.00 | **330000.00** |
| 10 | Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 49, I. No. 6.40.2 KPWD Electrical SR 2014-15** | Sq.Cm | | | | | | | |
| | | | 30 | 1100.00 | 20.00 | | **660000.00** | 0.33 | **217800.00** |
| 11 | Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark ( 50mm Gate wheel Valve. (PWD SR 16-17, P.NO.XXIV, Sl.no, 673) (659) | No's | | | | | | 1150/ | 69000 |
| | | | 20 | 3.00 | | | **60.00** | 1650.00 | **99000.00** |
| 12 | Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 16-17, P.NO.XXIV, Sl.no, 659) (673) | No's | | | | | | 1650/ | 396,000 |
| | | | 80 | 3.00 | | | **240.00** | 1150.00 | **276000.00** |
| 13 | Providing and fixing of 50mm GI bend to motor (PWD SR 16-17, P.NO.XXXVIII GI FITTINGS TABLE) | No's | | | | | | 219/ | |
| | | | 20 | 3.00 | | | **60.00** | 232.14 | **13928.00** |
| | Basic Rate | 219 | | | | | | | |



13140

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | 6% area weightage | 13.14 | | | | | | | |
| | Total | 232.14 | | | | | | | |
| 14 | Providing and fixing of 50mm GI Nipple to motor (PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE) | No's | | | | | | 104.30 | 12516 |
| | | | 40 | 3.00 | | | **120.00** | 110.56 | **13267.00** |
| | Basic Rate | 104.3 | | | | | | | |
| | 6% area weightage | 6.26 | | | | | | | |
| | Total | 110.56 | | | | | | | |
| 15 | Providing and fixing of 50mm GI union to the motor ( (PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE) | No's | | | | | | 223.70 | 26844 |
| | | | 40 | 3.00 | | | **120.00** | 237.12 | **28455.00** |
| | Basic Rate | 223.7 | | | | | | | |
| | 6% area weightage | 13.42 | | | | | | | |
| | Total | 237.12 | | | | | | | |
| | | | | | | | | | |
| 16 | Labour Charges for end connection ( MR) | No's | | | | | | | |
| | | | 20 | | | | **20.00** | 400.00 | **8000.00** |
| 17 | Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14) | No's | | | | | | | |
| | | | 100 | 1.00 | | | **100.00** | 906.40 | **90640.00** |
| | Basic Rate | 880 | | | | | | | |
| | 3% area weightage | 26.40 | | | | | | | |
| | Total | 906.40 | | | | | | | |
| 18 | Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable ( confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14) | Mtr | | | | | | | |
| | | | 1 | 200.00 | | | **200.00** | 169.95 | **33990.00** |
| | Basic Rate | 165 | | | | | | | |
| | 3% area weightage | 4.95 | | | | | | | |
| | Total | 169.95 | | | | | | | |
| 19 | Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14) | Mtr | | | | | | | |
| | | | 1 | 200.00 | | | **200.00** | 56.65 | **11330.00** |
| | Basic Rate | 55 | | | | | | | |
| | 3% area weightage | 1.65 | | | | | | | |
| | Total | 56.65 | | | | | | | |
| 20 | Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14) | Mtr | | | | | | | |
| | | | 1 | 80.00 | | | **80.00** | 294.58 | **23566.00** |
| | Basic Rate | 286 | | | | | | | |
| | 3% area weightage | 8.58 | | | | | | | |
| | Total | 294.58 | | | | | | | |
| 21 | Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR) | No's | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | 80 | | | | 80.00 | 1350.00 | **108000.00** |
| 22 | Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia (P.NO - 103, I.NO - 13.79.6, PWD SR 16-17) | No's | | | | | | | |
| | | | 30 | 3.00 | | | **90.00** | 1555.20 | **139968.00** |
| | Basic Rate | 1440 | | | | | | | |
| | 8% area weightage | 115.20 | | | | | | | |
| | Total | 1555.20 | | | | | | | |
| 23 | Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11** | No. | | | | | | | |
| | 63 Amps | | 30 | 3.00 | | | **90.00** | | |
| | | | | | | | **90.00** | 150.00 | **13500.00** |
| 24 | Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR | Cum | | | | | | | |
| | | | 1 | 2000.00 | 0.45 | 0.75 | **675.00** | | |
| | | | | | | | **675.00** | 223.66 | **150971.00** |
| | Basic Rate | 189 | | | | | | | |
| | 6% area weightage | 11.34 | | | | | | | |
| | Total | 200.34 | | | | | | | |
| 25 | Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR | Mtr | | | | | | | |
| | 63MM | | 1 | 1500.00 | | | **1500.00** | | |
| | | | | | | | **1500.00** | 368.88 | **553320.00** |
| | Basic Rate | 348.00 | | | | | | | |
| | **6% area weightage** | **20.88** | | | | | | | |
| | Total | 368.88 | | | | | | | |
| 26 | Providing and installing at site of work 75mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.3, PWD SR | Mtr | | | | | | | |
| | 75MM | | 1 | 500.00 | | | **500.00** | | |
| | | | | | | | **500.00** | 425.06 | **212530.00** |
| | Basic Rate | 401.00 | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | **6% area weightage** | **24.06** | | | | | | | |
| | Total | 425.06 | | | | | | | |
| 27 | Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17) | Cum | | | | | | | |
| | | | 1 | 2000.00 | 0.45 | 0.75 | **675.00** | | |
| | | | | | | | **675.00** | 59.36 | **40068.00** |
| | Basic Rate | 56.00 | | | | | | | |
| | 6% area weightage | **3.36** | | | | | | | |
| | Total | 59.36 | | | | | | | |
| 28 | Threading of GI Pipes 50mm Dia P. No. 15 / I No.3.11.6 PRED SR (2012-13) | | 50X30 | | | | **1500.00** | 25.00 | **37500.00** |
| 29 | Labour Charges of lifting of non functioning submersible Pump set along with cable and GI Pipes (BWSSB SR 14-15, P-558 I-1(i) | Each Length | 2X25 | 35.00 | | | **1750** | 109.00 | **190750.00** |
| 30 | Transportation of pumping machineries (**P. 56 / I. 10.3.19) PRED SR (2012-13)** | Each | 25 | | | | **25** | 900.00 | **22500.00** |
| 31 | Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)** | No. | 15 | | | | **15** | 5050.00 | **75750.00** |
| | | | | | | Grand Total | | | **4582106.00** |
| 28 | For 8% KRIDL Charges | | | | | | | | **366568.00** |
| 29 | For 1% Third Party Inspection Charges | | | | | | | | **45821.00** |
| 30 | Miscesallaneous Charges | L/S | | | | | | | 505 |
| | | | | | | | | Total | **4995000.00** |

**Rupees Forty Nine Lakh(s) Ninety Five Thousand Only**

**CERTIFICATE :**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD S.R.2016-17 of Rural Engineering Department
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Executive Engineer
Byatarayanapura Division

**Technical Sanction**
**Accorded For** 49.95 lakhs
**Head of A/C** P-3111
**CER NO** 169 **Dt:** 14.3.17

TA — CE (YNK)

ADMINISTRATIVELY SANCTIONED FOR Rs 49,95
Rupees forty nine lakh ninety five thousand only

Subject to conditions contained in enclosed memo CE ( ) to
Dt Estimate Administratively sanctioned
JC(4) AA/ORD 27/2016-17
dated 14-2-2017 Rs 49.95 lakh

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92